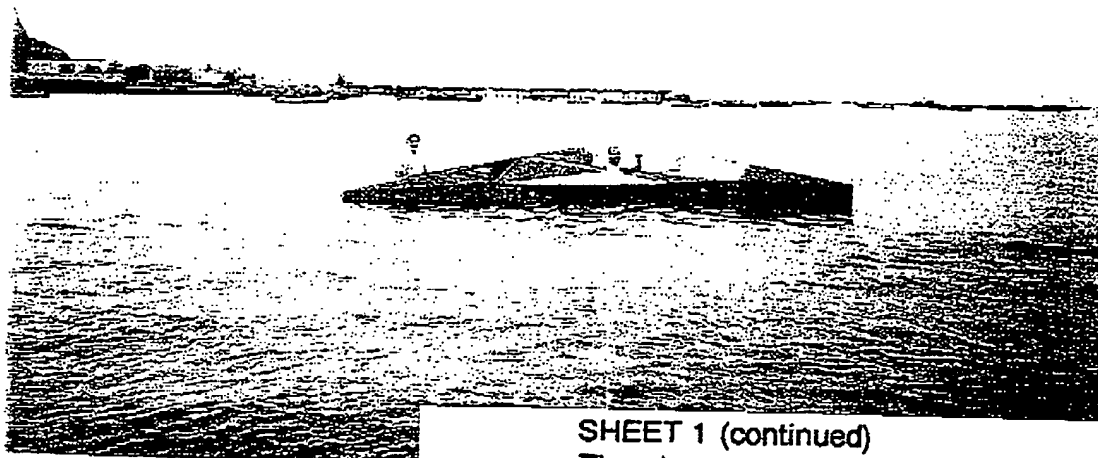


Drawings Corr #12

SHEET 1 - Photos show TH's faceted upperbody of Fig. 5 of patent application 09/677 583, in the transplanar hydrodynamic regime of Fig. 15, of patent application 09/677 897, without the lateral flows which are the mark of conventional planning boats (note center spray on wake is propeller driven and not hull generated). D. ALVA REG. CRUISE INVENTOR

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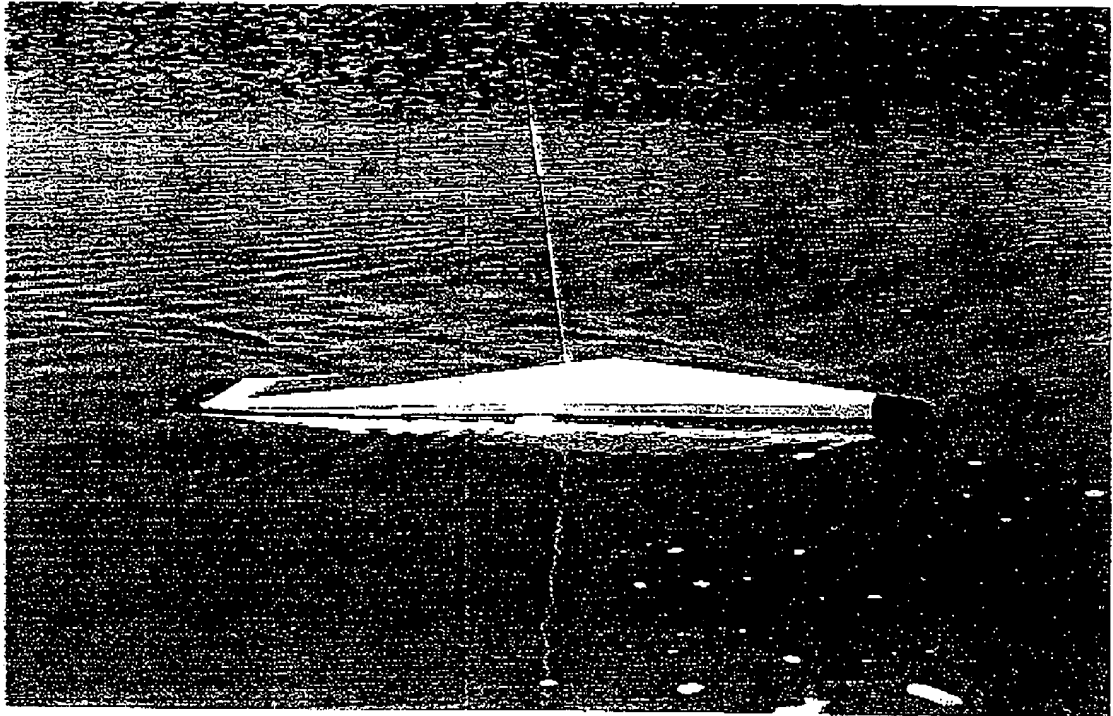


ALBERTO ALVAREZ CARRERON
inventor

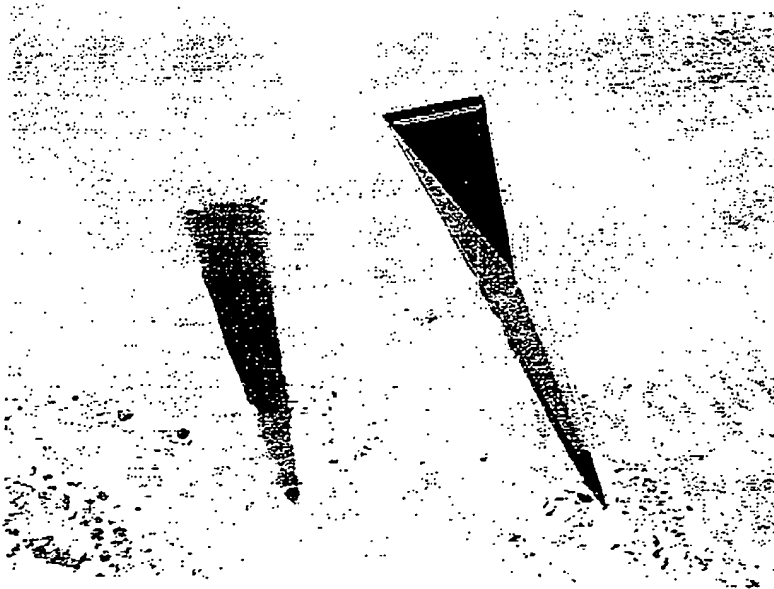
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SHEET 1 (continued)

The photos correspond to Figs. 5 and 3 of patent application 09/677 583, and show profile of TH stealth body above its static waterplane, free of radar reflecting step discontinuities (with canopy closed, shown open for sea tests).

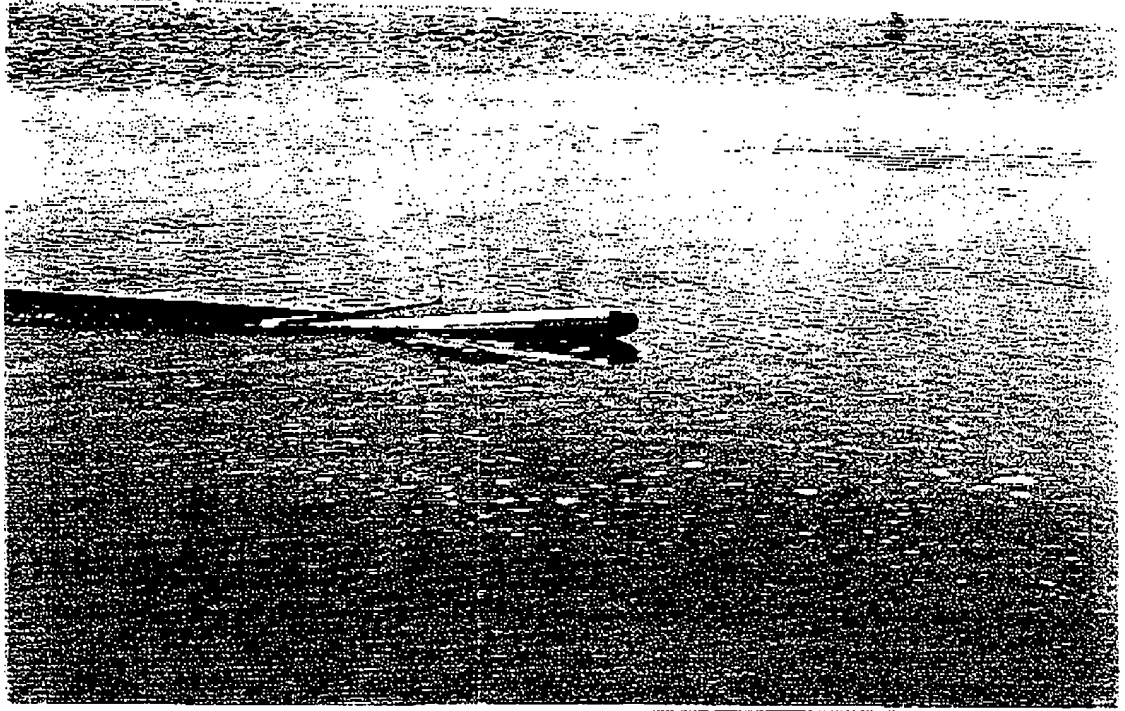


SHEET 2 - Photos correspond to surface-subsurface TH of Figures 5 and 3 of patent application 09/677 583. The upper photo has wings and a stern flap of Fig. 5, in static condition. The lower photo shows the unique pure faceted stealth archetype of minimal radar cross section (virtually zero) of Fig. 3, comprising only three faceted flat panels in unique cooperation between the triangular upper body planform and the triangular waterplane of the submerged hull portion.

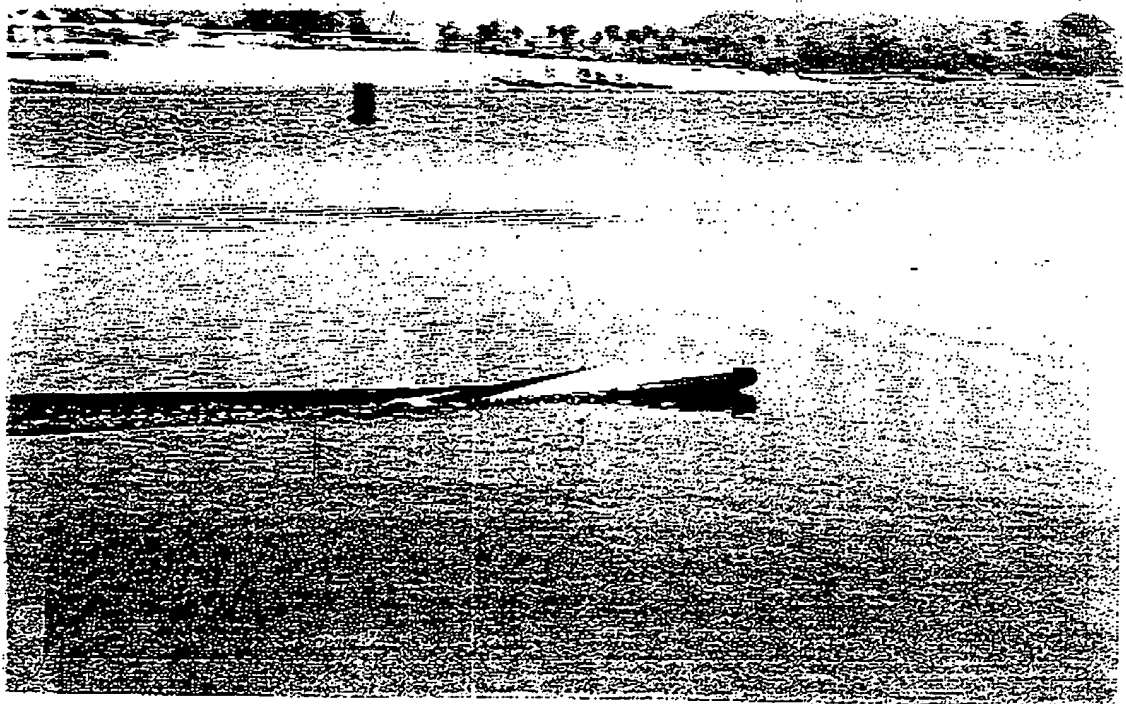


A. ALVAREZ CALDERON
inventor

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SHEET 3 - Photos show TH's pure and unique stealth upper body archetype of Fig. 5 of patent application 09/677 583 in the unprecedented stealthy hydrodynamic X-REGIME of Fig. 15 of patent application 09/677 897, which in itself is free of any lateral flow disturbance outside or inside its uniquely calm trapezoidal wake. The water outside the wake is completely undisturbed, an extraordinary situation. *ALBERTO ALVAREZ CALDERON*
INVENTOR



DEC-2-2002
CATAMARAN

Newslines Weapons and warfare
FROM NAVY TIMES DEC-2-2002

TRIMARAN



GENERAL DYNAMICS CONCEPT



CATAMARAN JOHN'S MONITOR TREAT CONCEPT

Close to home from top left, the General Dynamics proposal for the Littoral Combat Ship is based on a trimaran hull, a design with a central keel and an outrigger on each side. The Lockheed Martin proposal blends the Sea Slice, catamaran and Swath, or Small Waterplane Area Twin Hull, the SWATH design features two submarine-like hulls that remain submerged to reduce wave resistance. Northrop Grumman based its LCS design on the Swedish Visby corvette. John J. McInerney's design is influenced by the Norwegian Navy's Skjold surface effect ship.



LOCKHEED MARTIN CONCEPT



NORTHROP GRUMMAN CONCEPT

MONOHULL
Close to home from top left, the General Dynamics proposal for the Littoral Combat Ship is based on a trimaran hull, a design with a central keel and an outrigger on each side. The Lockheed Martin proposal blends the Sea Slice, catamaran and Swath, or Small Waterplane Area Twin Hull, the SWATH design features two submarine-like hulls that remain submerged to reduce wave resistance. Northrop Grumman based its LCS design on the Swedish Visby corvette. John J. McInerney's design is influenced by the Norwegian Navy's Skjold surface effect ship.

SHEET 4 - State-of-the-Art Ships of low radar signature, taken from Navy Times Dec. 2, 2002.

The newest stealth boats/ships proposals shown at right side of monohulls and multihulls all have radar reflecting step discontinuities, and none use the triangular waterplane of TH. The monohull does not show the unique cooperation of the triangular waterplane of TH with the triangular body planform which results for TH is having freedom from step discontinuities, with a freeboard of decreasing height towards the bow. Claim 53 should be allowable over the candidate concepts at right.